

Claims

9/13
1. An elevator hall door for closing and opening an entrance on an elevator hall, said elevator hall door comprising:

a door panel comprising a surface board facing a elevator hall, a back board facing a hoistway, and a reinforcing member for reinforcing said surface and back boards; and

a connecting member configured to connect said back board to said surface board or said reinforcing member,

wherein at least a part of said connecting member is capable of losing the force of constraint against said surface board or said reinforcing member on high temperature conditions during a fire.

2. An elevator hall door according to claim 1, wherein said connecting member comprises a steel rivet of a steel product for connecting one end portion of said door panel, and a low-melting-point or low strength aluminum rivet of aluminum for connecting the remaining portion of said door panel to be used as said connecting member.

3. An elevator hall door according to claim 2, wherein said connecting member comprises a rivet having a smaller head than a rivet hole which is formed in a connecting portion of said back board, and a plastic or rubber washer which is provided between said head of said rivet and said back board.

4. An elevator hall door according to claim 2, wherein said connecting member comprises a bolt, and a resin or rubber nut which forms a counterpart to said bolt.

5. An elevator hall door hanger apparatus for suspending a elevator hall door, which has a front face facing an elevator hall and a back face facing a hoistway of the elevator, in an entrance on the hall, said door hanger apparatus

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comprising:

a hanger member having a substantially L-shaped cross section, said hanger member comprising a short piece which is fixed on the upper portion of said door, and a long piece which rises along the back face of said door;

a plurality of hanger rollers which are rotatably mounted on said hanger member and each of which has a cushioning member at least on the outer peripheral surface thereof;

a guide rail which is supported by the entrance on the hall so as to extend in horizontal directions to guide said plurality of hanger rollers; and

penetration preventing means configured to prevent material of said cushioning member, which melts on high temperature conditions, from flowing along said hanger member to enter into said hoistway.

6. An elevator hall door hanger apparatus according to claim 5, wherein said penetration preventing means is said hanger member having a width which is substantially equal to the width of said door.

7. An elevator hall door hanger apparatus according to claim 5, wherein said penetration preventing means comprises a cap member for closing the corner portions of said hanger member on both ends in longitudinal directions.

8. An elevator hall door hanger apparatus according to claim 5, wherein said penetration preventing means comprises a shim member having a substantially L-shaped cross section, said shim member being provided between the top surface of said door and the short piece of said hanger member, the corner portions of said shim member on both ends in longitudinal directions being closed.

9. An elevator hall door hanger apparatus according to claim 5, wherein said penetration preventing means comprises

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a cover member for closing a notch portion, which is formed in said long piece of said hanger member and which is used for fixing said hanger member to said door, from the back surface of said door.

10. An elevator hall door hanger according to claim 5, wherein said penetration preventing means comprises a gutter member which is mounted on said guide rail below said hanger roller when said door is closed and which is inclined down toward the central portion of said door.

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